



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,822	06/04/2001	Darrel D. Cherry	10007421-1	5406

7590

11/02/2005

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

SHINGLES, KRISTIE D

ART UNIT

PAPER NUMBER

2141

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/873,822

Applicant(s)

CHERRY ET AL.

Examiner

Kristie Shingles

Art Unit

2141

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

Applicant has not amended any claims.

Claims 1-47 are pending.

Response to Arguments

1. Applicant's arguments with respect to claims 1-47 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-47** are rejected under 35 U.S.C. 103(a) as being unpatentable over *Goffinet et al* (US 5,905,906) in view of *Menezes et al* (US 5,621,894).

a. **Regarding claim 1**, *Goffinet et al* teach a system comprising: server communicatively coupled to a communication network; aggregate context information specifying operational parameters available via said communication network, wherein said aggregate context information is communicatively accessible by said server (col.1 lines 46-48,

Art Unit: 2141

col.2 lines 3-14); and at least one device communicatively coupled to said communication network, wherein said at least one device includes operational specification information specifying individual operational parameters of said at least one device stored locally to said at least one device (col.6 lines 29-39).

Yet, *Goffinet et al* fail to explicitly teach wherein said at least one device further includes relational context information stored locally thereto specifying the relation of said individual operational parameters of said at least one device to said aggregate of operational parameters available via said communication network. However, *Menezes et al* teach wherein said at least one device further includes relational context information stored locally thereto specifying the relation of said individual operational parameters of said at least one device to said aggregate of operational parameters available via said communication network (abstract, col.6 lines 19-35, col.8 lines 48-67, col.10 lines 28-54). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Goffinet et al* and *Menezes et al* because it provides an efficient means for communicating information about the operational capabilities of devices to other devices within a network and maintaining the information locally on devices by storing such information on the devices in order to assure that the devices are aware of the capabilities of the other networked devices. Doing so thus facilitates communication between devices in a manner appropriate and consistent with their operable abilities and permits the transmission of information between devices about data related to their operational parameters and capabilities.

b. **Regarding claims 14, 31 and 37,** *Goffinet et al* teach a device and computer program for providing relational content intelligence to a device communicatively connectable to

Art Unit: 2141

a communication network, said device comprising: operational specification information stored locally thereto, wherein said operational specification information includes information specifying individual operational parameters of said device (col.6 lines 29-39); means for receiving aggregate context information specifying an aggregate of operational parameters available via said communication network (col.1 lines 46-48, col.2 lines 3-14).

Yet, *Goffinet et al* fail to explicitly teach means for mapping at least a portion of said operational specification information onto the received aggregate context information to generate relational context information specifying the relation of said individual operational parameters of said device to said aggregate of operational parameters available via said communication network. However, *Menezes et al* teach means for mapping at least a portion of said operational specification information onto the received aggregate context information to generate relational context information specifying the relation of said individual operational parameters of said device to said aggregate of operational parameters available via said communication network (col.6 lines 19-35, col.8 lines 48-67, col.10 lines 28-54). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Goffinet et al* and *Menezes et al* because it provides an efficient means for communicating information about the operational capabilities of devices to other devices within a network and maintaining the information locally on devices by storing such information on the devices in order to assure that the devices are aware of the capabilities of the other networked devices. Doing so thus facilitates communication between devices in a manner appropriate and consistent with their operable abilities and permits the transmission of information between devices about data related to their operational parameters and capabilities.

c. **Regarding claim 20**, *Goffinet et al* teach a method for providing relational context intelligence to a network device, said method comprising the steps of: communicatively coupling a server to a communication network; communicatively coupling a first network device to said communication network; receiving at said server from said first network device operational specification information specifying individual operational parameters of said first network device; updating aggregate context information at said server to reflect the received operational specification information, wherein said aggregate context information specifies an aggregate of operational parameters available via said communication network; communicating at least a portion of said aggregate context information to said first network device (col.1 lines 46-48, col.2 lines 3-14, col.6 lines 29-39).

Yet, *Goffinet et al* fail to explicitly teach said first network device generating relational context information specifying a relation of said first network device's operational parameters to operational parameters of other network devices communicatively coupled to said communication network; and storing said relational context local to said first network device. However, *Menezes et al* teach said first network device generating relational context information specifying a relation of said first network device's operational parameters to operational parameters of other network devices communicatively coupled to said communication network; and storing said relational context local to said first network device (col.6 lines 19-35, col.8 lines 48-67, col.10 lines 28-54). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Goffinet et al* and *Menezes et al* because it provides an efficient means for communicating information about the operational capabilities of devices to other devices within a network and maintaining the information locally

Art Unit: 2141

on devices by storing such information on the devices in order to assure that the devices are aware of the capabilities of the other networked devices. Doing so thus facilitates communication between devices in a manner appropriate and consistent with their operable abilities and permits the transmission of information between devices about data related to their operational parameters and capabilities.

d. **Regarding claim 7**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Menezes et al* further teach the system wherein said relational context information includes information comparing one or more of said individual operational parameters of said at least one device to like operational parameters of other devices coupled to said communication network (col.8 lines 48-67, col.9 lines 25-35, col.11 line 54-col.12 line 5).

e. **Claims 19, 24, 36 and 42** are substantially similar to claim 7 and are therefore rejected under the same basis.

f. **Regarding claim 8**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Menezes et al* further teach the system wherein said at least one device includes a software application executable thereon to receive at least a portion of said aggregate context information and map one or more of said individual operational parameters of said at least one device onto the received aggregate context information to generate said relational context information (col.5 lines 27-38, col.7 lines 37-57, col.10 lines 28-54; *Goffinet et al*: col.1 lines 46-48, col.2 lines 3-14, col.6 lines 29-39).

g. **Claims 21 and 32** are substantially similar to claim 8 and are therefore rejected under the same basis.

Art Unit: 2141

h. **Regarding claim 9**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Menezes et al* further teach wherein said server includes a software application executable thereon to map said aggregate context information into relational categories (col.11 line 54-col.12 line 11, col.13 line 18-col.14 line 67).

i. **Claims 15, 25 and 44** are substantially similar to claim 9 and are therefore rejected under the same basis.

j. **Regarding claims 10**, *Goffinet et al* and *Menezes et al* teach the system of claim 9, *Menezes et al* further teach wherein said relational categories includes different categories for different values of an operational parameter (col.13 line 18-col.14 line 67, col.15 line 5-col.16 line 14).

k. **Regarding claim 11**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Menezes et al* further teach wherein said at least one device includes a software application executable thereon to map one or more of said individual operational parameters of said at least one device onto proper relational categories of said aggregate context information (col.11 line 54-col.12 line 11, col.13 line 18-col.14 line 67, col.15 line 5-col.16 line 14).

l. **Claim 26** is substantially similar to claim 11 and is therefore rejected under the same basis.

m. **Regarding claim 12**, *Menezes et al* teach the system of claim 11, wherein said software application is executable to respond to a received query as to whether one or more of said operational parameters of said at least one device are within a particular relational category of said aggregate context information (col.5 lines 19-47, col.11 lines 3-50, col.19 lines 22-39).

n. **Claims 27 and 45** are substantially similar to claim 12 and are therefore rejected under the same basis.

o. **Regarding claim 16**, *Goffinet et al* and *Menezes et al* teach the device of claim 14. *Menezes et al* further teach, wherein said relational context information is stored locally to said device (Figure 7, col.6 lines 19-35, col.8 lines 48-67).

p. **Claims 33 and 39** are substantially similar to claim 16 and are therefore rejected under the same basis.

q. **Regarding claim 2**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Goffinet et al* further teach wherein said communication network is a network selected from the group consisting of: general purpose processor-based information network, PSTN, wireless network, LAN, WAN, modem to modem connection, the Internet, an Intranet, an Extranet, and any combination thereof (col.4 lines 5-8).

r. **Regarding claim 3**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Goffinet et al* further teach wherein said aggregate context information includes information specifying an aggregate of operational parameters available via a totality of devices communicatively coupled to said communication network (col.1 lines 46-48, col.2 lines 3-14).

s. **Claim 22** is substantially similar to claim 3 and is therefore rejected under the same basis.

t. **Regarding claim 4**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Goffinet et al* further teach the system of claim 1, wherein said aggregate context information includes information specifying an aggregate of operational parameters available via a totality of

Art Unit: 2141

devices of a particular type communicatively coupled to said communication network (col.1 lines 46-48, col.2 lines 3-14, col.7 lines 6-7).

u. **Claims 17, 23, 34 and 40** are substantially similar to claim 4 and are therefore rejected under the same basis.

v. **Regarding claim 5**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Goffinet et al* further teach the system of claim 1, wherein said aggregate context information includes information specifying one or more ranges of operational parameters available via devices coupled to said communication network (col.1 lines 46-48, col.2 lines 3-14, col.7 lines 6-7).

w. **Claims 18, 35 and 41** are substantially similar to claim 5 and are therefore rejected under the same basis.

x. **Regarding claim 6**, *Goffinet et al* and *Menezes et al* teach the system of claim 1, *Goffinet et al* further teach the system wherein said at least one device is selected from the group consisting of: printers, processor-based devices, data storage devices, fax machines, optical scanners, PDAS, digital cameras, and any peripheral device capable of being communicatively coupled, either directly or indirectly, to said communication network (col.1 lines 46-48; *Menezes et al*: Abstract, col.5 lines 1-4).

y. **Claim 43** is substantially similar to claim 6 and is therefore rejected under the same basis.

z. **Regarding claim 13**, *Goffinet et al* and *Menezes et al* teach the system of claim 1 *Goffinet et al* further teach wherein said at least one device includes a software application executable thereon to communicate said operational specification information to said server, and

Art Unit: 2141

wherein said server includes a software application executable thereon to receive said operational specification information and update said aggregate context information to reflect said operational specification information (col.1 lines 46-48, col.2 lines 3-14, col.6 lines 29-39; *Menezes et al*: col.7 lines 37-59, col.8 lines 20-47, col.10 lines 28-54).

aa. **Claims 28-30** are substantially similar to claim 13 and are therefore rejected under the same basis.

bb. **Regarding claim 38**, *Goffinet et al* and *Menezes et al* teach the computer program product of claim 37, *Goffinet et al* further teach wherein said device comprises said computer-readable storage medium local thereto, and wherein said device includes a processor for executing said computer readable program code (col.1 lines 46-48, col.2 lines 3-14; *Menezes et al*: col.5 lines 1-5, col.5 line 66-col.6 line 22).

cc. **Regarding claim 46**, *Goffinet et al* and *Menezes et al* teach the computer program product of claim 37, *Goffinet et al* further teach wherein said computer readable program code further comprises: code executable to communicate said operational specification information to a server via said communication network (col.1 lines 46-48, col., lines 3-14).

dd. **Regarding claim 47**, *Goffinet et al* teaches the computer program product of claim 46 wherein said code executable to receive said aggregate context information is executable to receive said aggregate context information from said server via said communication network (col.1 lines 46-48, col.2 lines 3-14).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: *Ooki* (US 5,991,846), *Erkinger et al* (US 6,240,477), *Martinez et al* (US 5,892,973), *Tung et al* (US 5,859,979).


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kristie Shingles
Examiner
Art Unit 2141

kds


RUPAL DHARIA
SENIOR PATENT EXAMINER